

WHAT IS CLAIMED IS:

1. An information processing apparatus which can access a plurality of databases, comprising:

first copying means for copying data selected from a first database to a second database;

determination means for determining if each of attribute items of attribute information appended to the data can be set in the second database; and

second copying means for copying information of an attribute item, which is determined by said determination means not to be settable in the second database, to a predetermined attribute item of the second database.

2. The apparatus according to claim 1, wherein said second copying means copies information of an attribute item, which is determined by said determination means to be settable in the second database, to a corresponding attribute item of the second database, and copies information of the attribute item, which is determined by said determination means not to be settable in the second database, to the predetermined attribute item of the second database.

3. The apparatus according to claim 1, wherein said second copying means copies the information of the attribute item which cannot be set in the second database to the predetermined item in a predetermined format which indicates information of a mismatching attribute item.

4. The apparatus according to claim 3, wherein the

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predetermined format indicates an attribute item name and contents thereof.

5. The apparatus according to claim 4, further comprising information recovery means for, when said second copying means detects attribute information stored in the predetermined attribute item in the predetermined format, recovering the attribute information on the basis of the attribute item name and contents thereof indicated by the information.

6. The apparatus according to claim 1, further comprising: holding means for holding conversion information indicating a correspondence between attribute items of the first and second databases, and

wherein said determination means determines based on the conversion information if each of the attribute items of the attribute information appended to the data can be set in the second database.

7. An information processing apparatus for backing up data present in a plurality of databases, comprising:

first copying means for copying data present in one of the plurality of databases to a backup database;

determination means for determining if each of attribute items of attribute information appended to the data can be set in the backup database;

second copying means for copying information of an attribute item, which is determined by said determination

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means to be settable in the backup database, to a  
corresponding attribute item of the backup database, and  
copying information of an attribute item, which is determined  
by said determination means not to be settable in the backup  
5 database, to a predetermined item of the backup database in  
a predetermined format; and

information recovery means for, when attribute  
information stored in the predetermined attribute item in  
the predetermined format is detected upon copying data from  
10 the backup database to one of the plurality of databases,  
recovering the attribute information on the basis of an  
attribute item name and contents thereof indicated by the  
information.

8. An information processing apparatus which can access  
15 a plurality of databases, comprising:

first copying means for copying data selected from a  
first database to a second database;

holding means for holding conversion information  
indicating a correspondence between attribute items of the  
20 first and second databases;

conversion means for converting each of attribute items  
of attribute information appended to data copied by said  
first copying means to an attribute item of the second  
database in accordance with the conversion information; and

25 second copying means for copying the attribute  
information converted by said conversion means as attribute

information in the second database.

9. The apparatus according to claim 8, wherein when an attribute item which is not set in the conversion information is found, said second copying means copies the attribute item and attribute information thereof to a predetermined attribute item in the second database.

10. The apparatus according to claim 8, wherein when the conversion information corresponding to the first and second databases is not held in said holding means, said second copying means copies attribute items which cannot be set to a predetermined attribute item of the second database in a predetermined format.

11. The apparatus according to claim 8, further comprising creation means for, when the conversion information corresponding to the first and second databases is not held in said holding means, executing processing for creating the conversion information on the basis of a user's input, and

wherein said conversion means converts the attribute information using the conversion information created by said creation means.

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12. An information processing method which can access a plurality of databases, comprising:

the first copying step of copying data selected from a first database to a second database;

the determination step of determining if each of attribute items of attribute information appended to the data

can be set in the second database; and

the second copying step of copying information of an attribute item, which is determined in the determination step not to be settable in the second database, to a predetermined attribute item of the second database.

13. The method according to claim 12, wherein the second copying step includes the step of copying information of an attribute item, which is determined in the determination step to be settable in the second database, to a corresponding attribute item of the second database, and copying information of the attribute item, which is determined in the determination step not to be settable in the second database, to the predetermined attribute item of the second database.

14. The method according to claim 12, wherein the second copying step includes the step of copying the information of the attribute item which cannot be set in the second database to the predetermined item in a predetermined format which indicates information of a mismatching attribute item.

15. The method according to claim 14, wherein the predetermined format indicates an attribute item name and contents thereof.

16. The method according to claim 15, further comprising the information recovery step of recovering the attribute information on the basis of the attribute item name and contents thereof indicated by attribute information, when

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attribute information stored in the predetermined attribute item in the predetermined format is detected in the second copying step.

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- 5 17. The method according to claim 12, further comprising:  
the holding step of holding conversion information indicating a correspondence between attribute items of the first and second databases, and

10 wherein the determination step includes the step of determining based on the conversion information if each of the attribute items of the attribute information appended to the data can be set in the second database.

18. An information processing method for backing up data present in a plurality of databases, comprising:

15 the first copying step of copying data present in one of the plurality of databases to a backup database;

the determination step of determining if each of attribute items of attribute information appended to the data can be set in the backup database;

20 the second copying step of copying information of an attribute item, which is determined in the determination step to be settable in the backup database, to a corresponding attribute item of the backup database, and copying information of an attribute item, which is determined in the determination step not to be settable in the backup database, to a predetermined item of the backup database in a  
25 predetermined format; and

the information recovery step of recovering attribute information on the basis of an attribute item name and contents thereof indicated by attribute information, when attribute information stored in the predetermined attribute item in the predetermined format is detected upon copying data from the backup database to one of the plurality of databases.

19. An information processing method which can access a plurality of databases, comprising:

10 the first copying step of copying data selected from a first database to a second database;

the holding step of holding conversion information indicating a correspondence between attribute items of the first and second databases;

15 the conversion step of converting each of attribute items of attribute information appended to data copied in the first copying step to an attribute item of the second database in accordance with the conversion information; and

the second copying step of copying the attribute information converted in the conversion step as attribute information in the second database.

20. The method according to claim 19, wherein when an attribute item which is not set in the conversion information is found, the second copying step includes the step of copying the attribute item and attribute information thereof to a predetermined attribute item in the second database.

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21. The method according to claim 19, wherein when the conversion information corresponding to the first and second databases is not held in the holding step, the second copying step includes the step of copying attribute items which cannot be set to a predetermined attribute item of the second database in a predetermined format.

22. The method according to claim 19, further comprising the creation step of executing processing for creating conversion information on the basis of a user's input, when the conversion information corresponding to the first and second databases is not held in the holding step, and wherein the conversion step includes the step of converting the attribute information using the conversion information created in the creation step.

23. A database system which can copy data between a plurality of databases, comprising:

first copying means for copying data selected from a first database to a second database;

determination means for determining if each of attribute items of attribute information appended to the data can be set in the second database; and

second copying means for copying information of an attribute item, which is determined by said determination means not to be settable in the second database, to a predetermined attribute item of the second database.

24. A database system having a plurality of databases,



comprising:

a backup database for backing up data present in the plurality of databases;

5 first copying means for copying data present in one of the plurality of databases to said backup database;

determination means for determining if each of attribute items of attribute information appended to the data can be set in said backup database;

10 second copying means for copying information of an attribute item, which is determined by said determination means to be settable in said backup database, to a corresponding attribute item of said backup database, and copying information of an attribute item, which is determined by said determination means not to be settable in said backup  
15 database, to a predetermined item of said backup database in a predetermined format; and

information recovery means for, when attribute information stored in the predetermined attribute item in the predetermined format is detected upon copying data from  
20 said backup database to one of the plurality of databases, recovering the attribute information on the basis of an attribute item name and contents thereof indicated by the information.

25. A database system which can copy data between a  
25 plurality of databases, comprising:

first copying means for copying data selected from a

first database to a second database;

holding means for holding conversion information indicating a correspondence between attribute items of the first and second databases;

5 conversion means for converting each of attribute items of attribute information appended to data copied by said first copying means to an attribute item of the second database in accordance with the conversion information; and

second copying means for copying the attribute  
10 information converted by said conversion means as attribute information in the second database.

26. A method of controlling a database system which can copy data between a plurality of databases, comprising:

the first copying step of copying data selected from  
15 a first database to a second database;

the determination step of determining if each of attribute items of attribute information appended to the data can be set in the second database; and

the second copying step of copying information of an  
20 attribute item, which is determined in the determination step not to be settable in the second database, to a predetermined attribute item of the second database.

27. A method of controlling a database system having a plurality of databases including a backup database,  
25 comprising:

the first copying step of copying data present in one

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of the plurality of databases to the backup database;

the determination step of determining if each of attribute items of attribute information appended to the data can be set in the backup database;

5 the second copying step of copying information of an attribute item, which is determined in the determination step to be settable in the backup database, to a corresponding attribute item of the backup database, and copying information of an attribute item, which is determined in the  
10 determination step not to be settable in the backup database, to a predetermined item of the backup database in a predetermined format; and

the information recovery step of recovering attribute information on the basis of an attribute item name and  
15 contents thereof indicated by attribute information, when attribute information stored in the predetermined attribute item in the predetermined format is detected upon copying data from the backup database to one of the plurality of databases.

20 28. A method of controlling a database system which can copy data between a plurality of databases, comprising:

the first copying step of copying data selected from a first database to a second database;

the holding step of holding conversion information  
25 indicating a correspondence between attribute items of the first and second databases;

the conversion step of converting each of attribute items of attribute information appended to data copied in the first copying step to an attribute item of the second database in accordance with the conversion information; and

5 the second copying step of copying the attribute information converted in the conversion step as attribute information in the second database.

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29. A storage medium which stores a control program for a database client which copies data between a plurality of  
10 databases, said control program comprising:

a code of the first copying step of copying data selected from a first database to a second database;

a code of the determination step of determining if each of attribute items of attribute information appended to the  
15 data can be set in the second database; and

a code of the second copying step of copying information of an attribute item, which is determined in the determination step not to be settable in the second database, to a predetermined attribute item of the second database.

20 30. A storage medium which stores a database client control program for a database system having a plurality of databases and a backup database for backing up data present in the plurality of databases, said control program comprising:

a code of the first copying step of copying data present  
25 in one of the plurality of databases to the backup database;

a code of the determination step of determining if each

of attribute items of attribute information appended to the data can be set in the backup database;

5 a code of the second copying step of copying information of an attribute item, which is determined in the determination step to be settable in the backup database, to a corresponding attribute item of the backup database, and copying information of an attribute item, which is determined in the determination step not to be settable in the backup database, to a predetermined item of the backup database in a predetermined format; and

10 a code of the information recovery step of recovering attribute information on the basis of an attribute item name and contents thereof indicated by attribute information, when attribute information stored in the predetermined attribute item in the predetermined format is detected upon copying data from the backup database to one of the plurality of databases.

31. A storage medium which stores a control program for a database client which copies data between a plurality of databases, said program code comprising:

a code of the first copying step of copying data selected from a first database to a second database;

25 a code of the holding step of holding conversion information indicating a correspondence between attribute items of the first and second databases;

a code of the conversion step of converting each of

attribute items of attribute information appended to data copied in the first copying step to an attribute item of the second database in accordance with the conversion information; and

- 5        a code of the second copying step of copying the attribute information converted in the conversion step as attribute information in the second database.

2025 RELEASE UNDER E.O. 14176